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1. Study Findings from University of Texas Austin Provide New Insights into Data Centers (Geospatial Suitability Analysis for Data Center Placement: a Case Study In Texas, Usa)

Study Findings from University of Texas Austin Provide New Insights into Data Centers (Geospatial Suitability Analysis for Data Center Placement: a Case Study In Texas, Usa)

Information Technology Daily

September 25, 2025 Thursday

Section: INFORMATION TECHNOLOGY - DATA CENTERS

Length: 476 words

Body

2025 SEP 25 (NewsRx) -- By a News Reporter-Staff News Editor at Information Technology Daily -- Investigators publish new report on Information Technology - Data Centers. According to news reporting out of Austin, Texas, by NewsRx editors, research stated, "Data centers are essential for supporting the digital economy but pose challenges due to high energy and infrastructure demands. This study presents a geospatial suitability analysis for data center placement in Texas, integrating machine learning-based feature importance with a multi-criteria decision-making (MCDM) approach."

Financial support for this research came from ***Bureau of Economic Geology*** (BEG).

Our news journalists obtained a quote from the research from the University of Texas Austin, "Key criteria include energy access, skilled labor, infrastructure, natural hazards, and land availability. Energy access and infrastructure (combined 31%) and environmental hazards (35% combined) emerged as the most influential factors. Sensitivity analyses confirmed the robustness of the model, demonstrating that metropolitan areas, such as Dallas, Austin, Houston, and San Antonio-consistently emerged as the most suitable regions due to their strong infrastructure, skilled labor force, and resilient energy networks."

According to the news editors, the research concluded: "This conclusion aligns with observed trends in operational data centers and signifies the importance of infrastructure, connectivity, and workforce availability in urban regions."

This research has been peer-reviewed.

For more information on this research see: Geospatial Suitability Analysis for Data Center Placement: a Case Study In Texas, Usa. Sustainable Cities and Society, 2025;131. Sustainable Cities and Society can be contacted at: Elsevier, Radarweg 29, 1043 Nx Amsterdam, Netherlands. (Elsevier - www.elsevier.com; Sustainable Cities and Society - www.journals.elsevier.com/sustainable-cities-and-society/)

Our news journalists report that additional information may be obtained by contacting Mariam Arzumanyan, University of Texas Austin, Bur Econ Geol, 10100 Burnet Rd, Austin, TX 78758, United States. Additional authors for this research include Edna Rodriguez Calzado, Ning Lin, Jani Das, Tingwei Lucy Ko, Vaibhav Bahadur and Lars Koesterke.

The direct object identifier (DOI) for that additional information is: https://doi.org/10.1016/j.scs.2025.106687. This DOI is a link to an online electronic document that is either free or for purchase, and can be your direct source for a journal article and its citation.

Keywords for this news article include: Austin, Texas, United States, North and Central America, Data Centers, Information Technology, University of Texas Austin.

Classification

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Organization: UNIVERSITY OF TEXAS (91%)

Industry: NEWS REPORTING (78%); COLLEGES & UNIVERSITIES (88%); DATA CENTERS (90%); GEOSPATIAL DATA (90%); FINANCIAL MARKET UPDATES (90%); ENERGY NETWORKS (76%); DIGITAL ECONOMY (78%); WRITERS (89%); ARTIFICIAL INTELLIGENCE (56%); ACCESS TO ENERGY (90%); ENERGY SECURITY (76%); MACHINE LEARNING (56%); SUSTAINABLE CITIES & COMMUNITIES (89%)

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